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Keywords

Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording

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Keywords

Computer security, access control, program monitoring, security automata, policy specification

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Keywords  
Coding and signal processing for data storage, biometrics, pattern recognition  

Bianchini, Ronald Adjunct Professor – ECE  

Keywords  
Distributed fault-tolerant computing and computer networks  

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Keywords  
Test and diagnosis of heterogeneous, integrated systems  

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Keywords  
Formal hardware and software verification
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Keywords
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Keywords

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

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Keywords

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Keywords

Usable privacy and security

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Keywords
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Keywords
Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

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Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics

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Molecular beam epitaxy, scanning tunneling microscopy

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Keywords

Automatic performance tuning; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3DIC systems; domain-specific languages and compilers

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Security, privacy, formal methods, and programming languages.

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Keywords

Semiconductor device physics and semiconductor process technology, sensors

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Keywords

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Keywords

Tribology, nanomanufacturing, multi-scale particle flows

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Keywords

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Keywords
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performance analysis, cloud computing, machine learning

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Keywords

Computer vision, autonomous systems, medical robotics

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Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

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Keywords

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Keywords
distributed embedded systems, survivable system architecture, dependability

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Signal processing, biomedical, wavelets, frames, multiresolution, communications

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Synthesis and verification of embedded control software, distributed control strategies, distributed supervisory control, information and control in wireless sensor networks, discrete event and hybrid dynamic systems

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Magnetic recording, optical recording and ferroelectric materials

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Digital circuit design, computer architecture, memory design, reconfigurable computing
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Scientific computing, parallel computing, computational database systems, and virtualization

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Keywords
Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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Keywords
Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

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Keywords

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

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Keywords

Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

Phelps, Shelley
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Piazza, Gianluca
(Gian) Professor – ECE; Director – Nanofab

Keywords

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

Pileggi, Larry
Tanoto Professor – ECE

Keywords

Design, implementation and modeling of electronic integrated systems

Platzer, Andre
Assistant Professor – CS, ECE

Keywords

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

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Keywords
Embedded and real-time systems

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Electronic circuits, systems design automation

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Keywords
Embedded systems, distributed systems, sensor networks

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Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition
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Keywords

Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Semiconductor devices, information storage, optoelectronic systems

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

Network protocols, applications, distributed systems, mobile computing, wireless networks
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Keywords

Modern superscalar processor design, instruction-level parallelism and code scheduling  

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Keywords

Computer architecture, reliability, context aware mobile computing  

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Keywords

Networked embedded control systems, sensors/actuators networks, control theory  

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Keywords

Telecommunications policy and economics  

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Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS  

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Keywords
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Keywords
Wireless communications, nanophotonics, spin wave devices

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Keywords
Automatic speech recognition, auditory perception, signal processing

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Keywords
Statistically based CAD/CAM of VLSI circuits
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Keywords
Audio signal processing, music and sound recording applications
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Keywords
Network security; Wireless networking
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Keywords
Autonomous agents, distributed control, power systems, cascading failures
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Computer-aided design of single chip heterogeneous multiprocessing systems
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Keywords
Optical networks, wireless networks and communications systems, and high-speed networking
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Keywords
Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

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Keywords
Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

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Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

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Keywords

Magnetic nanotechnology

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Keywords

Wireless communications, network science, security, social networks, cyber-physical networks

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Keywords

Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems

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Keywords

Multi-core processors, Network-on-chip, Digital VLSI

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Keywords

Computer networks, internet, resource management, multimedia

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Keywords

Sensor Networks, Embedded Systems

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording

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